

t49_kurato_1 (TMSpH-
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Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tops_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_topmetr : \iota$ be given. Let $k6_kurato_1 : \iota$ be given. Let $k2_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(X0 \in k1_enumset1 (k1_tops_1 k3_topmetr k6_kurato_1) \\ & (k1_tops_1 k3_topmetr (k2_pre_topc k3_topmetr k6_kurato_1)) \\ & (k1_tops_1 k3_topmetr (k2_pre_topc k3_topmetr (k1_tops_1 k3_topmetr \\ & k6_kurato_1)))) \Rightarrow ((\neg v1_xboole_0 X0) \wedge ((v3_pre_topc X0 k3_topmetr) \wedge \\ & (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 k3_topmetr)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & k2_pre_topc k3_topmetr (k1_tops_1 k3_topmetr k6_kurato_1) \neq k1_tops_1 \\ & k3_topmetr k6_kurato_1 \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & k2_pre_topc k3_topmetr (k1_tops_1 k3_topmetr k6_kurato_1) \neq k1_tops_1 \\ & k3_topmetr (k2_pre_topc k3_topmetr (k1_tops_1 k3_topmetr k6_kurato_1)) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (4)$$

Assume the following.

$$\begin{aligned} & k2_pre_topc k3_topmetr (k1_tops_1 k3_topmetr (k2_pre_topc k3_topmetr \\ & k6_kurato_1)) \neq k1_tops_1 k3_topmetr (k2_pre_topc k3_topmetr \\ & k6_kurato_1) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (u1_struct_0\ X0))) \Rightarrow (k2_pre_topc\ X0\ (k1_tops_1\ X0\ X1) = k2_pre_topc \\ X0\ (k1_tops_1\ X0\ (k2_pre_topc\ X0\ (k1_tops_1\ X0\ X1)))))) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_pre_topc\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1 \\ (u1_struct_0\ X0))) \Rightarrow (r1_tarski\ X1\ (k2_pre_topc\ X0\ X1))) \end{aligned} \quad (7)$$

Assume the following.

$$u1_struct_0\ k3_topmetr = k1_numbers \quad (8)$$

Assume the following.

$$m1_subset_1\ k6_kurato_1\ (k1_zfmisc_1\ (u1_struct_0\ k3_topmetr)) \quad (9)$$

Assume the following.

$$(v2_pre_topc\ k3_topmetr) \wedge (l1_pre_topc\ k3_topmetr) \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((l1_pre_topc\ X0) \wedge (m1_subset_1\ X1\ (k1_zfmisc_1 \\ (u1_struct_0\ X0)))) \Rightarrow (m1_subset_1\ (k2_pre_topc\ X0\ X1)\ (k1_zfmisc_1 \\ (u1_struct_0\ X0))) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.\forall X3.(X3 = k1_enumset1 \\ X0\ X1\ X2) \Leftrightarrow (\forall X4.(X4 \in X3) \Leftrightarrow (\neg(X4 \neq X0) \wedge ((X4 \neq X1) \wedge (X4 \neq X2)))) \end{aligned} \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1_tarski\ X0\ X1) \wedge (r1_tarski\ X1\ X0)) \quad (13)$$

Theorem 1

$$\begin{aligned} \forall X0.\neg(X0 \in k1_enumset1\ (k1_tops_1\ k3_topmetr\ k6_kurato_1) \\ (k1_tops_1\ k3_topmetr\ (k2_pre_topc\ k3_topmetr\ k6_kurato_1)) \\ (k1_tops_1\ k3_topmetr\ (k2_pre_topc\ k3_topmetr\ (k1_tops_1\ k3_topmetr \\ k6_kurato_1)))) \wedge (X0 = k1_numbers) \end{aligned}$$